

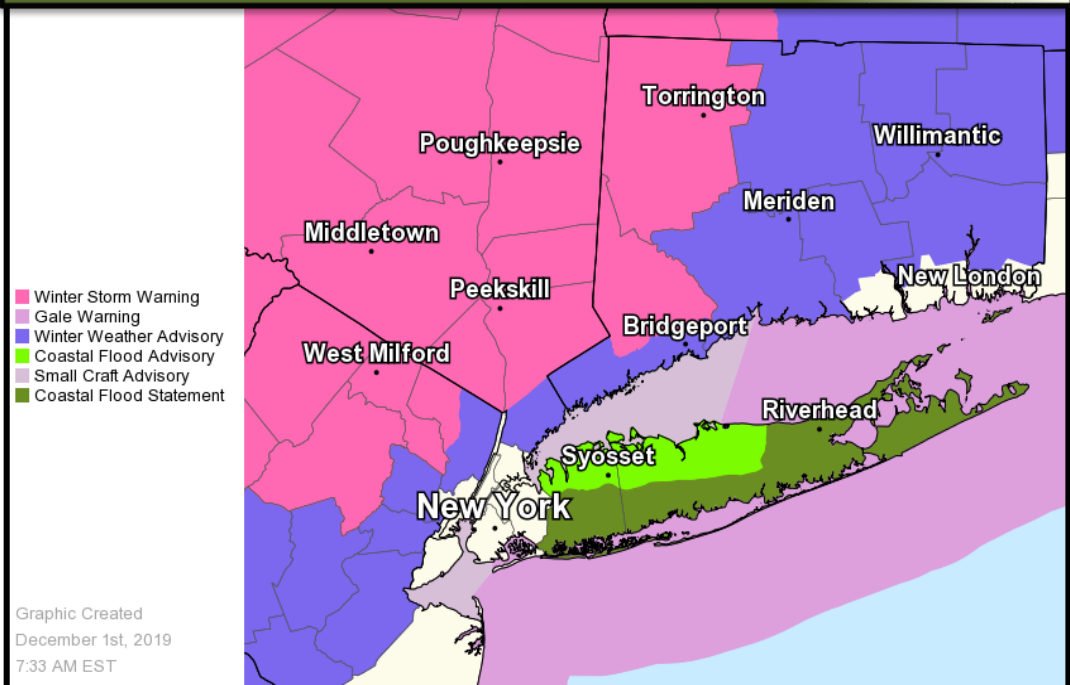
Winter Storm Today into Monday Night

Decision Support Briefing #4 As of: 7:30 AM Dec 1, 2019




What Has Changed?

- ✓ Winter storm warnings issued for Parts of NE NJ, much of the Lower Hudson Valley and Northern Fairfield CT.
- ✓ Winter weather advisories expanded to include much of NE NJ, Southern Westchester NY, and much of Southern Connecticut.
- ✓ Gale Warning issued for ocean waters south of Long Island out 20nm, Eastern LI Sound and Eastern bays of LI this afternoon into Monday afternoon.
- ✓ Coastal flood advisories issued for NW Suffolk NY, Northern Nassau NY, Southern Fairfield CT for late tonight, coastal flood statements for Southern Nassau, Southern New Haven, rest of Suffolk NY

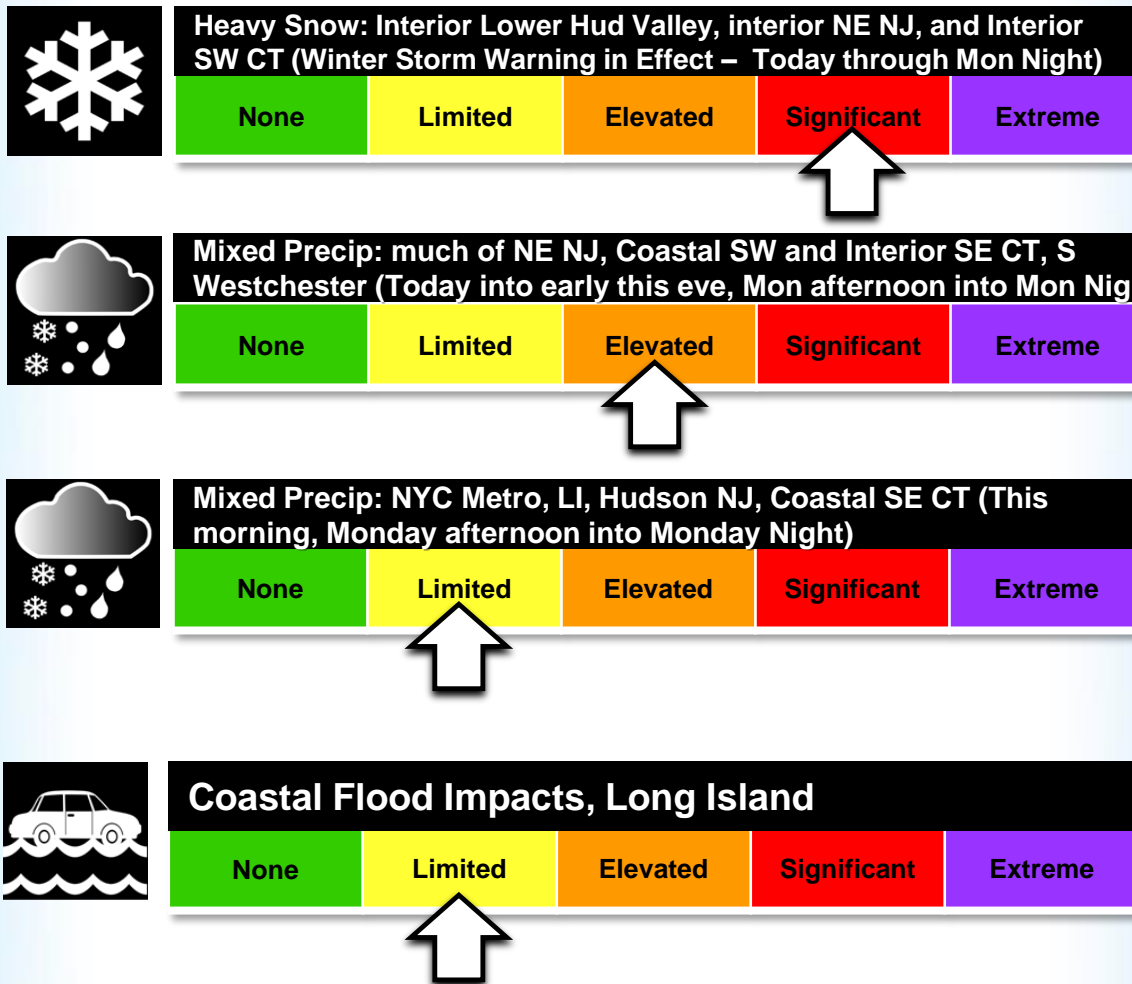
Current Hazards



Main Points

Hazard	Impacts	Location	Timing
Heavy Snow <ul style="list-style-type: none"> • 6-12" Snow • Around 1/10" to 1/4" ice 	<ul style="list-style-type: none"> • Snowfall rates of 1 to 2 inches per hour possible this afternoon, as well as Monday. • Several downed tree limbs and powerlines • Snow covered roads resulting in difficult travel. 	<ul style="list-style-type: none"> • Interior portions of the Lower Hud Valley, interior NE NJ, and Interior SW CT 	<ul style="list-style-type: none"> • This morning through Monday Night
Mixed Precip <ul style="list-style-type: none"> • 3-6" Snow • Glaze of ice for suburbs just NW of NYC 	<ul style="list-style-type: none"> • Scattered downed trees and power lines. • Difficult travel late this morning into afternoon, and then again Monday afternoon into night. 	<ul style="list-style-type: none"> • Coastal SW and Interior SE CT, S Westchester, much of NE NJ. • Lesser snow amounts for NYC, Hudson NJ, LI and coastal SE CT 	<ul style="list-style-type: none"> • Wintry precip this morning into afternoon. • Rain tonight into Monday morning. • Snow Monday afternoon into Monday night
Coastal Impacts <ul style="list-style-type: none"> • 1-2 ft inundation 	<ul style="list-style-type: none"> • Minor coastal flooding during times of high tide. • Scattered areas of dune erosion and localized overwashes at ocean beaches. 	<ul style="list-style-type: none"> • Vulnerable coastal locales along all of LI, and SW CT. 	<ul style="list-style-type: none"> • Times of high tide tonight, possibly Monday Afternoon

Summary of Greatest Impacts



Heavy Snow/Wintry Mix - Winter Storm Warning

Winter Storm Warning

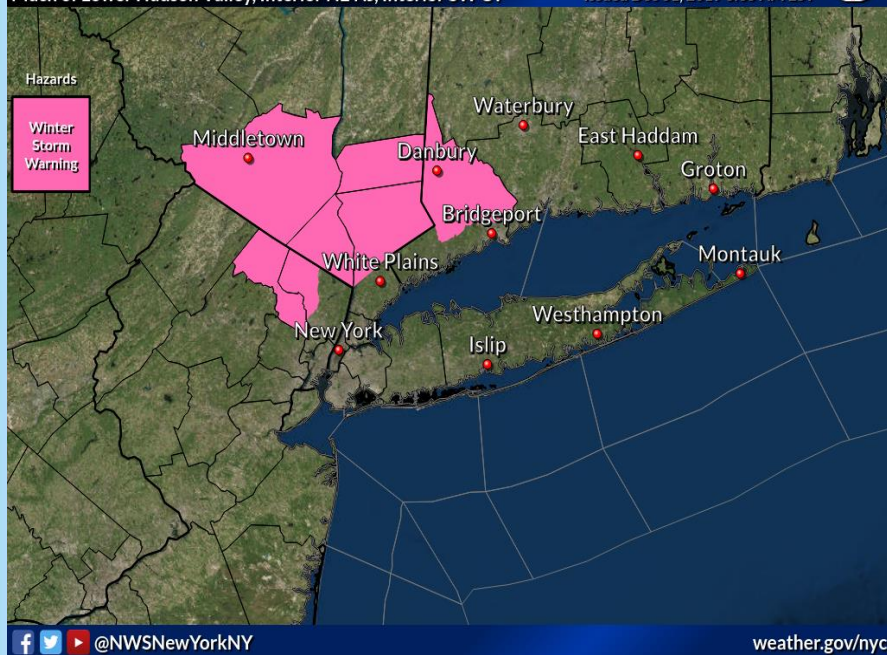
Weather Forecast Office

New York, NY



Much of Lower Hudson Valley, Interior NE NJ, Interior SW CT

Issued Dec 01, 2019 6:35 AM EST



Uncertainty:

- ✓ Uncertainty on placement of heavy precip banding On Monday
- ✓ Snow amounts Mon into Mon Night could be 1-3" higher or lower than forecast based on heavy snow banding location.

Hazards:

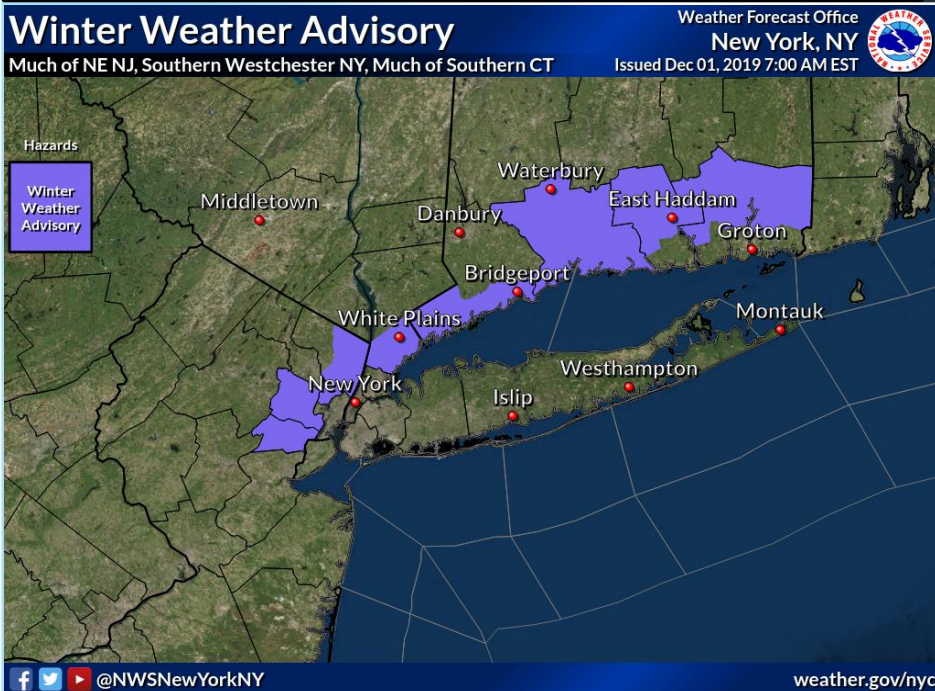
- ✓ Interior Lower Hudson Valley, interior NE NJ and interior SW CT
 - ✓ Snow starts this morning into early afternoon, changing to wintry mix late this afternoon into early this evening.
 - ✓ 2-4" snowfall before changeover
 - ✓ Sleet and freezing rain late today into Mon AM
 - ✓ 1/10-1/4" Ice Accum
 - ✓ Changeover back to snow Mon AM before ending late Mon Night.
 - ✓ Additional snowfall: 4-8"
 - ✓ Total Snow Accum: 6-12"
 - ✓ Snowfall Rates: 1-2"/hr possible this afternoon and once again Monday into Monday evening
 - ✓ Temps: Lower 20s this morning, Upper 20s to Lower 30s this afternoon through Mon night

Impacts:

- ✓ Heavy wet snow and ice accum, with wind gusts of 20 to 30 mph, will likely down several tree branches and powerlines, causing scattered power outages.
- ✓ Difficult travel conditions this afternoon through early Tue AM.



Snow/Wintery Mix – Winter Weather Advisory



Uncertainty:

- ✓ Uncertainty on timing of changeover back to snow on Mon aft into eve, and placement of heavy precip banding.
- ✓ Total snow amounts could be 1-2" (higher) lower than forecast based on (earlier) later changeover, and location/placement of heavier precip banding Mon/Mon Night.

Hazards:

- ✓ Much of NE NJ, much of Southern CT, and Southern Westchester.
 - ✓ Snow starts this morning into early afternoon, changing to rain by mid to late this afternoon.
 - ✓ 1-3" snow before changing to rain
 - ✓ Changeover back to snow Mon afternoon into evening, before ending early Tue AM.
 - ✓ Additional snow: 1-3"
 - ✓ Total Snow Accum: 2-6"
 - ✓ Snowfall rates: ½ to 1"/hr possible this afternoon, and Mon Afternoon into Mon Night.
 - ✓ Temps: 20s this morning, rising to low to mid 30s this afternoon into tonight, back to lower 30s Mon afternoon into Mon evening, upper 20s Mon night.
- ✓ NYC, Hudson NJ, LI, Coastal SE CT
 - ✓ Brief start as snow mid to late this morning/early afternoon before changing to rain by mid afternoon.
 - ✓ Little to no snow accum
 - ✓ Changeover back to snow Mon into Mon night, before ending early Tue AM.
 - ✓ Snow Accum: 1-3"

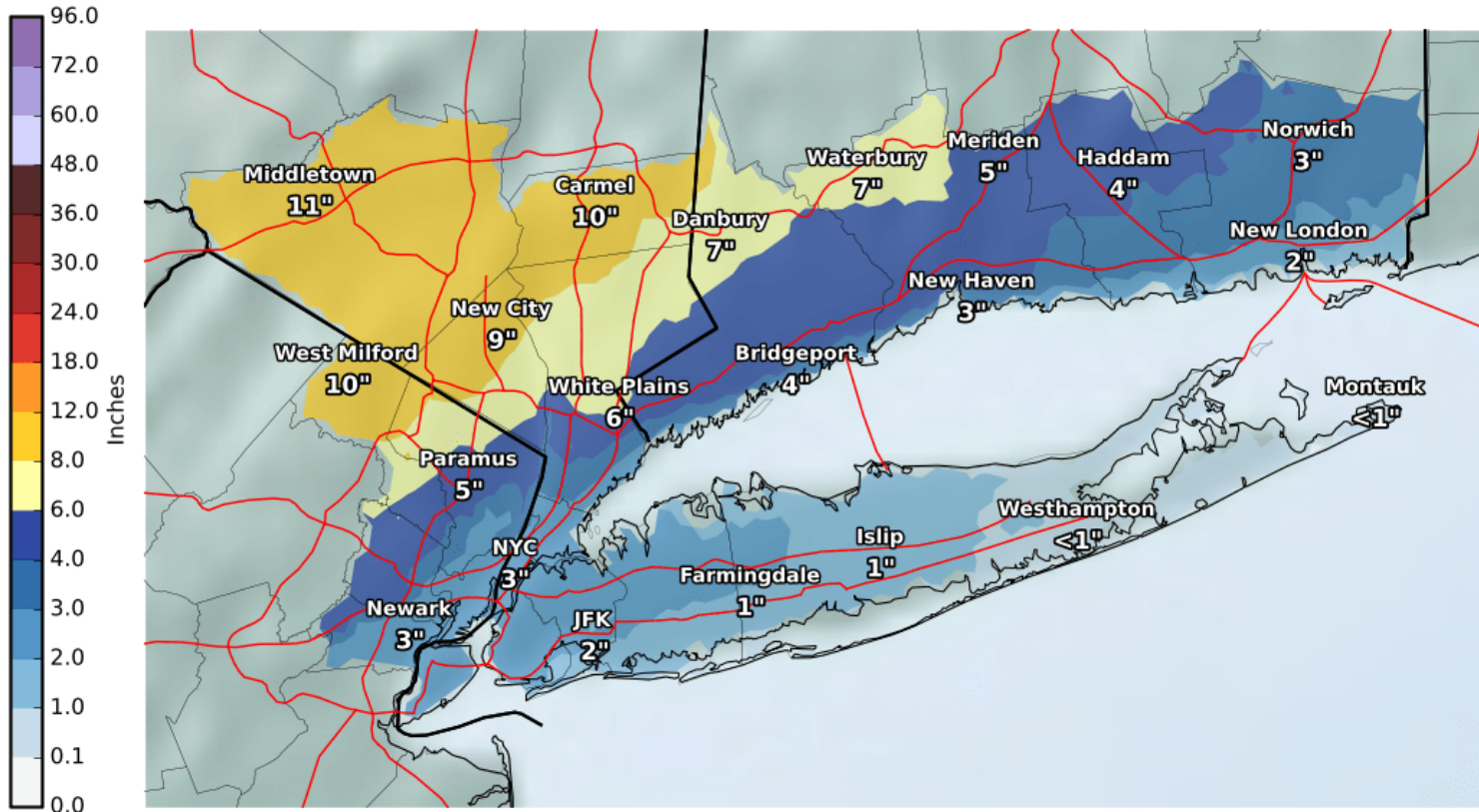
Impacts:

- ✓ Heavy wet snow, and winds gust of 25 to 30 mph, Monday aft/Night may result in scattered downed branches and a few power outages.
- ✓ Hazardous travel for this afternoon, and then Monday into early Tues AM

Most Likely Snowfall – Official Forecast

Expected Snowfall - Official NWS Forecast

Valid: 12/01/2019 07:00 AM - 12/03/2019 07:00 AM



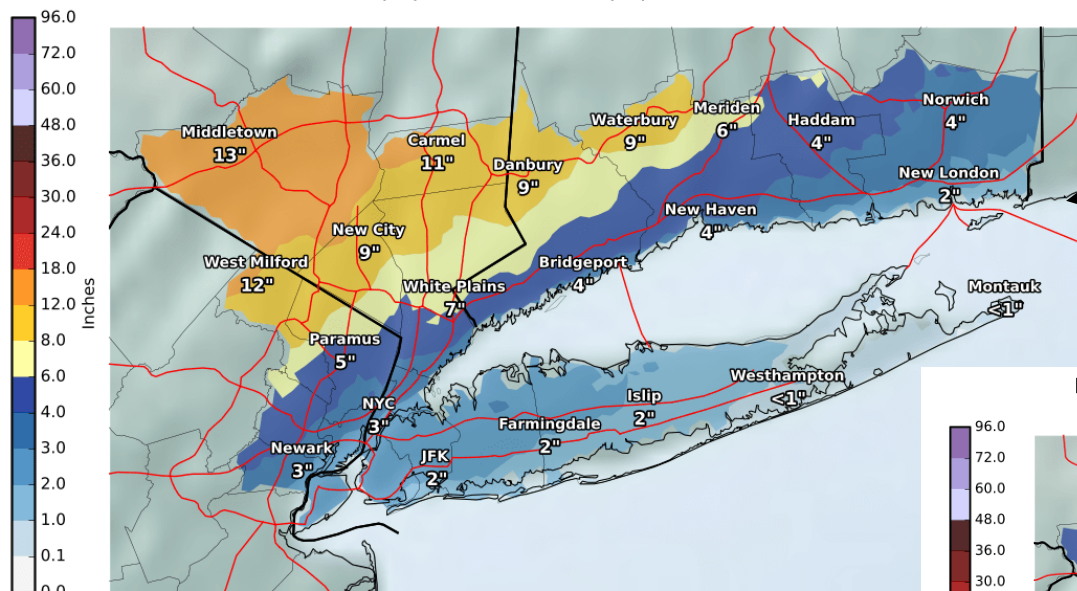
National Weather Service
New York NY
12/01/2019 04:45 AM EST

Follow Us: weather.gov/nyc/winter

Probabilistic Snowfall Forecast

High End Amount - 1 in 10 Chance (10%) Of Higher Snowfall

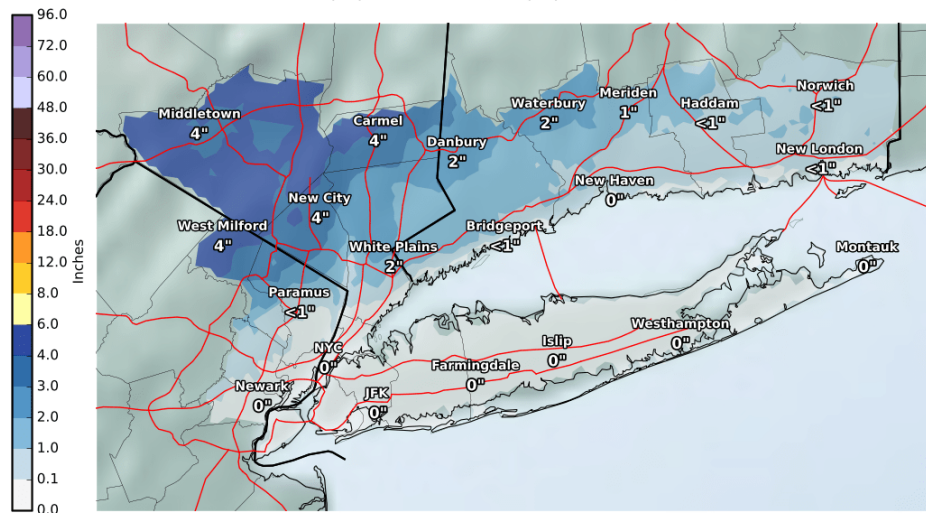
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Snow amounts could be close to these levels if transition to snow occurs on early end Monday and heavier snow banding develops Monday into Monday Night.

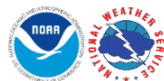
Low End Amount - 9 in 10 Chance (90%) Of Higher Snowfall

Valid: 12/01/2019 07:00 AM - 12/03/2019 07:00 AM



National Weather Service
New York NY
12/01/2019 04:45 AM EST

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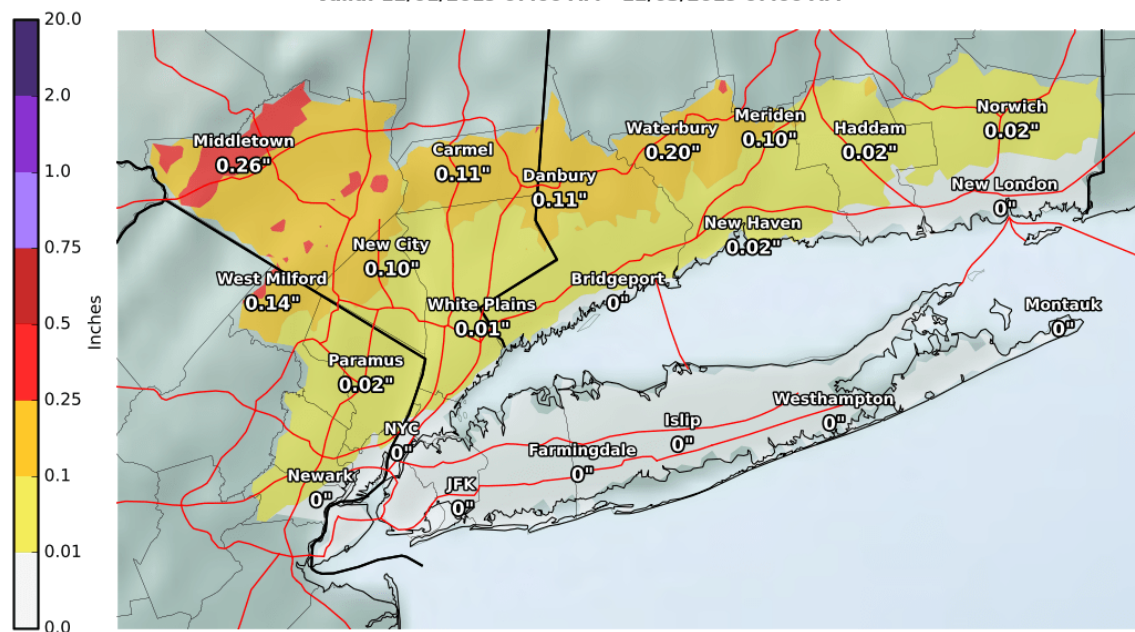
National Weather Service
New York NY
12/01/2019 04:45 AM EST

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Ice Accumulation

Expected Ice Accumulation- Official NWS Forecast

Valid: 12/01/2019 07:00 AM - 12/03/2019 07:00 AM



National Weather Service
New York NY
12/01/2019 04:47 AM EST

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weather.gov/nyc/winter

Hazards:

- ✓ Interior Lower Hudson Valley, interior SW CT, and interior NE NJ Late today into early Monday Morning.
 - ✓ Around 1/10 to 1/4 inch of ice likely
 - ✓ Up to 1/2 inch possible
- ✓ Suburbs just NW of NYC metro, rest of Southern CT, Southern Westchester NY this afternoon into this evening.
 - ✓ Light glaze of ice

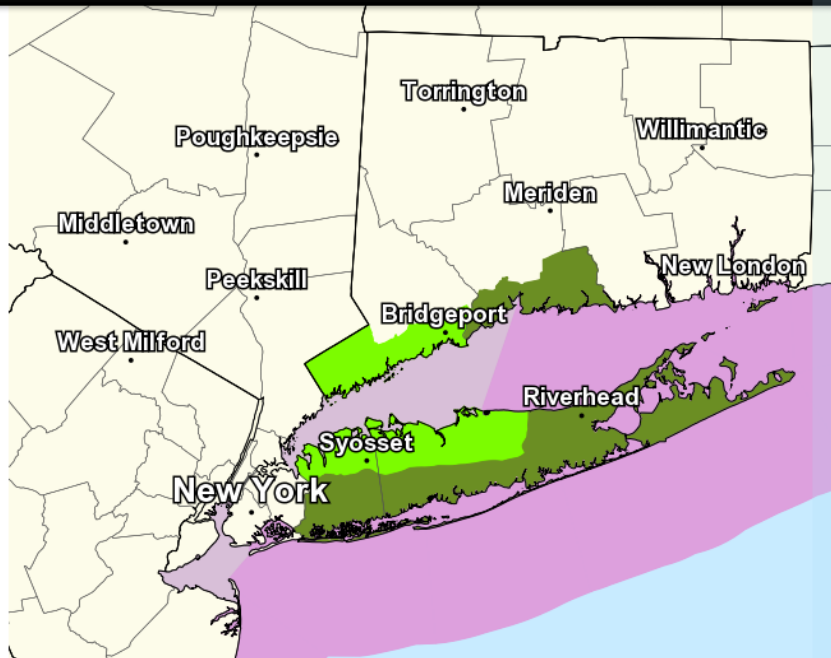
Impacts:

- ✓ Hazardous travel
- ✓ Icing on untreated and elevated surfaces



Coastal Flooding

Marine / Coastal Hazards



Coastal Flood Hazards and Impacts:

- ✓ Minor coastal flooding during times of high tide late tonight.
- ✓ Inundation of 1 to 2 ft above ground in vulnerable locales along Western Long Island Sound.
- ✓ Scattered waterfront and shoreline road closures.
- ✓ Inundation of 1 Ft or less for the southern and eastern bays of LI.

Shoreline Hazards and Impacts:

- ✓ 4-7' breaking waves along the oceanfront, 4 to 5' along the twin forks, and 3 to 4' along W. LI sound shoreline.
- ✓ Scattered areas of dune erosion with localized washovers along Atlantic ocean beachfront
- ✓ Beach erosion and wave splashover possible along W LI Sound and north shore of LI and twin forks.

Timing:

- ✓ During times of high tide late tonight
- ✓ Additional minor coastal flooding possible with Monday afternoon high tide across southern bays of LI

Please go to the NWS New York, NY Coastal Flooding Page for the latest coastal flood forecast and the tools to visualize the coastal impacts.

<https://www.weather.gov/okx/coastalflood>

Event Summary

- ✓ Winter Storm Warning for Interior Lower Hudson Valley, interior NE NJ and interior SW CT this morning into Tuesday Morning.
 - ✓ 6-12 inches of snow and 1/10th to 1/4 inch of ice
- ✓ Winter Weather Advisory in effect this morning into Tuesday Morning for much of NE NJ, Southern Westchester NY, and much of Southern CT
 - ✓ 1-3 inches of snow and a glaze of ice, before a changeover to rain tonight, another 1-3 inches of snow Monday into Monday night.
- ✓ Additional winter weather headlines may be needed for the coastal plain, including NYC, for Monday afternoon into Monday Night with potential for additional accumulating snow.
- ✓ Minor coastal/shoreline impacts likely for Western Long Island Sound as well as Long Island shorelines during times of high tide tonight.
- ✓ Scattered areas of dune erosion and localized overwashes for Atlantic ocean beachfront during times of high tide tonight and Monday afternoon.